



# Building Dashboard

| Fire Station   |   |  |                   | 412 Main Street   |                                   |                           |  |
|--|---|--|-------------------|---|-----------------------------------|---------------------------|--|
| Building Data  |   |  |                   |   |                                   |                           |  |
| Structural Details   |   |  | HVAC              |   | Condition                         | Equipment                 | Type/age   |
| Year Built   | 1936 - station built (WPA)<br>1990's - East garage added  |  | Heating System    | Oil-Fired Boiler (500 gallon tank)<br><br>Pellet Boiler   | POOR<br><br>GOOD (exhaust issues) | Interior Lighting         | T-8s - upgraded in 2014 -added occupancy sensors |
| Square Footage   | 21,200  |  | Heat Distribution | Two-Pipe System with Convector and Unit Heaters           |                                   | Exterior Lighting         | Needs Data                                       |
| Envelope   | Brick - Masonry   |  | Air Conditioning  | 12 air conditioners (one split unit)                      |                                   | Washer/Dryer Refrigerator | Needs Data                                       |
| Roof   | Gable - Slate Shingles  |  | Ventilation       | Passive   |                                   | Vending Machines          | Needs Data                                       |
| Windows  | Double Glazed   |  | Hot Water Heater  | Gas Fired 100gal with solar preheat tank (Stiebel Eltron) | GOOD                              | Air compressor            | Good Condition                                   |
| Insulation   | None  |  |                   |   |                                   |                           |  |
| Building Summary   | Truck Bay added 1999, Converted from Steam to Hot Water in 2006, added Wood Pellet Boilers in 2012. Very tall chimney, and hose tower contribute to air quality issues from pellet burner. 2009 saw an increased energy usage due to a switch to 24 hour shifts |  |                   |   |                                   |                           |  |
| Energy Profile - FY2019                                    |   |  |                   |   |                                   |                           |  |
| Energy Efficiency (BTU per Square Foot)                    |   |  |                   |   |                                   |                           |  |
| Electric   | Heat  | Total  |                   |   |                                   |                           |  |
| 15,566   | 40,660  | 56,226   |                   |   |                                   |                           |  |
| If Total is ≤ 40K<br>Great!                                | 40K-80K<br>OK   | >80K<br>Needs Work   |                   |   |                                   |                           |  |
| Annual Energy Cost   |   |  |                   |   |                                   |                           |  |
| Electric   | Heat  | Total  |                   |   |                                   |                           |  |
| \$17,419   | \$14,175  | \$31,594   |                   |   |                                   |                           |  |
| Berkshire Gas Rate Class                                   |   | G-51   |                   |   |                                   |                           |  |
| Electric Service Rate Class                                |   | G0   |                   |   |                                   |                           |  |
| Average Monthly Demand (kW)                                |   | 22   |                   |   |                                   |                           |  |
| Completed Work   |   |  |                   |   |                                   |                           |  |
| Fiscal Year  | Project   |  |                   |   | Cost to Town                      | Life Expectancy           | Warranty   |
| 2006   | Convert from steam to hot water   |  |                   |   | n/a                               | n/a                       | expired  |
| 2011   | Wood Pellet Boiler installed  |  |                   |   | Mass-High Performance             | 20 years                  | expired  |
| 2011   | Solar hot water system installed  |  |                   |   | Buildings Grant                   | 20 years                  | expired  |
| Capital Improvement Plan Projects                          |   |  |                   |   |                                   |                           |  |
| Fiscal Year  | Project   |  |                   |   | Cost                              | Life Expectancy           | Warranty   |
| 2020-21  | Planned - New Fire Station/Public Safety Complex  |  |                   |   | TBD                               | TBD                       | TBD  |
| Additional Maintenance and Replacement Projects Identified |   |  |                   |   |                                   |                           |  |
|  | Project   |  |                   |   | Predicted Cost                    | Payback Time              | Supporting Info                                  |
|  | Address exhaust issues from pellet boilers with indoor air quality  |  |                   |   | n/a                               | n/a                       | Report available upon request                    |
| Audits/Assessments   |   |  |                   |   |                                   |                           |  |
| Fiscal Year  | Type  | Findings   |                   |   |                                   |                           |  |
| 2009   | Siemens Whole building  | Report available upon request  |                   |   |                                   |                           |  |
| 2017   | UMASS air quality assessment  | Need to block oil burner chimney to prevent backdraft from pellet boiler |                   |   |                                   |                           |  |